



OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/910,706A

DATE: 03/13/2002

TIME: 11:16:34

Input Set : A:\JHU1520-2.TXT
 Output Set: N:\CRF3\03132002\I910706A.raw

4 <110> APPLICANT: THE JOHNS HOPKINS UNIVERSITY SCHOOL OF MEDICINE
 5 WORLEY, Paul F.
 6 BRAKEMAN, Paul R.
 8 <120> TITLE OF INVENTION: SYNAPTIC ACTIVATION PROTEIN COMPOSITIONS AND METHOD
 10 <130> FILE REFERENCE: JHU1520-2
 12 <140> CURRENT APPLICATION NUMBER: US 09/910,706A
 13 <141> CURRENT FILING DATE: 2001-07-20
 15 <150> PRIOR APPLICATION NUMBER: US 09/042,428
 16 <151> PRIOR FILING DATE: 1998-03-13
 18 <150> PRIOR APPLICATION NUMBER: US 60/036,553
 19 <151> PRIOR FILING DATE: 1997-03-14
 21 <160> NUMBER OF SEQ ID NOS: 15
 23 <170> SOFTWARE: PatentIn version 3.0
 25 <210> SEQ ID NO: 1
 26 <211> LENGTH: 558
 27 <212> TYPE: DNA
 28 <213> ORGANISM: Rattus norvegicus
 30 <220> FEATURE:
 31 <221> NAME/KEY: CDS
 32 <222> LOCATION: (1)...(558)
 34 <400> SEQUENCE: 1
 35 atg ggg gaa caa cct atc ttc agc act cga gct cat gtc ttc cag atc 48
 36 Met Gly Glu Gln Pro Ile Phe Ser Thr Arg Ala His Val Phe Gln Ile
 37 1 5 10 15
 39 gac cca aac aca aag aac tgg gta ccc acc agc aag cat gca gtt 96
 40 Asp Pro Asn Thr Lys Lys Asn Trp Val Pro Thr Ser Lys His Ala Val
 41 20 25 30
 43 act gtg tct tat ttc tat gac agc aca agg aat gtg tat agg ata atc 144
 44 Thr Val Ser Tyr Phe Tyr Asp Ser Thr Arg Asn Val Tyr Arg Ile Ile
 45 35 40 45
 47 agt cta gac ggc tca aag gca ata ata aat agc acc atc act cca aac 192
 48 Ser Leu Asp Gly Ser Lys Ala Ile Ile Asn Ser Thr Ile Thr Pro Asn
 49 50 55 60
 51 atg aca ttt act aaa aca tct caa aag ttt ggc caa tgg gct gat agc 240
 52 Met Thr Phe Thr Lys Thr Ser Gln Lys Phe Gly Gln Trp Ala Asp Ser
 53 65 70 75 80
 55 cgg gca aac act gtt tat gga ctg gga ttc tcc tct gag cat cat ctc 288
 56 Arg Ala Asn Thr Val Tyr Gly Leu Gly Phe Ser Ser Glu His His Leu
 57 85 90 95
 59 tca aaa ttt gca gaa aag ttt cag gaa ttt aaa gaa gct gct cgg ctg 336
 60 Ser Lys Phe Ala Glu Lys Phe Gln Glu Phe Lys Glu Ala Ala Arg Leu
 61 100 105 110
 63 gca aag gag aag tcg cag gag aag atg gaa ctg acc agt acc cct tca 384

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/910,706A

DATE: 03/13/2002

TIME: 11:16:34

Input Set : A:\JHU1520-2.TXT

Output Set: N:\CRF3\03132002\I910706A.raw

64 Ala Lys Glu Lys Ser Gln Glu Lys Met Glu Leu Thr Ser Thr Pro Ser
 65 115 120 125
 67 cag gaa tca gca gga gga gat ctt cag tct cct tta aca cca gaa agt 432
 68 Gln Glu Ser Ala Gly Gly Asp Leu Gln Ser Pro Leu Thr Pro Glu Ser
 69 130 135 140
 71 atc aat ggg aca gat gat gag aga aca ccc gat gtg aca cag aac tca 480
 72 Ile Asn Gly Thr Asp Asp Glu Arg Thr Pro Asp Val Thr Gln Asn Ser
 73 145 150 155 160
 75 gag cca agg gct gag cca gct cag aat gca ttg cca ttt tca cat agg 528
 76 Glu Pro Arg Ala Glu Pro Ala Gln Asn Ala Leu Pro Phe Ser His Arg
 77 165 170 175
 79 tac aca ttc aat tca gca atc atg att aaa 558
 80 Tyr Thr Phe Asn Ser Ala Ile Met Ile Lys
 81 180 185
 84 <210> SEQ ID NO: 2
 85 <211> LENGTH: 186
 86 <212> TYPE: PRT
 87 <213> ORGANISM: Rattus norvegicus
 89 <400> SEQUENCE: 2
 91 Met Gly Glu Gln Pro Ile Phe Ser Thr Arg Ala His Val Phe Gln Ile
 92 1 5 10 15
 93 Asp Pro Asn Thr Lys Lys Asn Trp Val Pro Thr Ser Lys His Ala Val
 94 20 25 30
 95 Thr Val Ser Tyr Phe Tyr Asp Ser Thr Arg Asn Val Tyr Arg Ile Ile
 96 35 40 45
 97 Ser Leu Asp Gly Ser Lys Ala Ile Ile Asn Ser Thr Ile Thr Pro Asn
 98 50 55 60
 99 Met Thr Phe Thr Lys Thr Ser Gln Lys Phe Gly Gln Trp Ala Asp Ser
 100 65 70 75 80
 101 Arg Ala Asn Thr Val Tyr Gly Leu Gly Phe Ser Ser Glu His His Leu
 102 85 90 95
 103 Ser Lys Phe Ala Glu Lys Phe Gln Glu Phe Lys Glu Ala Ala Arg Leu
 104 100 105 110
 105 Ala Lys Glu Lys Ser Gln Glu Lys Met Glu Leu Thr Ser Thr Pro Ser
 106 115 120 125
 107 Gln Glu Ser Ala Gly Gly Asp Leu Gln Ser Pro Leu Thr Pro Glu Ser
 108 130 135 140
 109 Ile Asn Gly Thr Asp Asp Glu Arg Thr Pro Asp Val Thr Gln Asn Ser
 110 145 150 155 160
 111 Glu Pro Arg Ala Glu Pro Ala Gln Asn Ala Leu Pro Phe Ser His Arg
 112 165 170 175
 113 Tyr Thr Phe Asn Ser Ala Ile Met Ile Lys
 114 180 185
 116 <210> SEQ ID NO: 3
 117 <211> LENGTH: 50
 118 <212> TYPE: PRT
 119 <213> ORGANISM: Homo sapiens
 121 <400> SEQUENCE: 3
 123 Met Gly Glu Gln Pro Ile Phe Thr Thr Arg Ala His Val Phe Gln Ile

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/910,706A

DATE: 03/13/2002
TIME: 11:16:34

Input Set : A:\JHU1520-2.TXT
Output Set: N:\CRF3\03132002\I910706A.raw

124 1 5 10 15
125 Asp Pro Asn Thr Lys Lys Asn Trp Met Pro Ala Ser Lys His Gly His
126 20 25 30
127 Arg Phe Tyr Phe Tyr Asp Val Thr Arg Asn Ser Tyr Arg Ile Ile Ser
128 35 40 45
129 Val Asp
130 50
132 <210> SEQ ID NO: 4
133 <211> LENGTH: 153
134 <212> TYPE: PRT
135 <213> ORGANISM: Mus musculus
137 <400> SEQUENCE: 4
139 Tyr Phe Tyr Asp Val Thr Arg Asn Ser Tyr Arg Ile Ile Ser Val Asp
140 1 5 10 15
141 Gly Ala Lys Val Ile Ile Asn Ser Thr Ile Thr Pro Asn Met Thr Phe
142 20 25 30
143 Thr Lys Thr Ser Gln Lys Phe Gly Gln Trp Ala Asp Ser Arg Ala Asn
144 35 40 45
145 Thr Val Phe Gly Leu Gly Phe Ser Ser Glu Leu Gln Leu Thr Lys Phe
146 50 55 60
147 Ala Glu Lys Phe Gln Glu Val Arg Glu Ala Ala Arg Leu Ala Arg Asp
148 65 70 75 80
149 Lys Ser Gln Glu Lys Thr Glu Thr Ser Ser Asn His Ser Gln Glu Ser
150 85 90 95
151 Gly Cys Glu Thr Pro Ser Ser Thr Gln Ala Ser Ser Val Asn Gly Thr
152 100 105 110
153 Asp Asp Glu Lys Ala Ser His Ala Ser Pro Ala Asp Thr His Leu Lys
154 115 120 125
155 Ser Glu Asn Asp Lys Leu Lys Ile Ala Leu Thr Gln Ser Ala Ala Asn
156 130 135 140
157 Val Lys Lys Trp Glu Met Glu Leu Gln
158 145 150
160 <210> SEQ ID NO: 5
161 <211> LENGTH: 10
162 <212> TYPE: PRT
163 <213> ORGANISM: Artificial sequence
165 <220> FEATURE:
166 <223> OTHER INFORMATION: C-terminal of metabotropic glutamate receptor,
167 mGluR1-alpha.
169 <400> SEQUENCE: 5
171 Arg Asp Tyr Lys Gln Ser Ser Ser Thr Leu
172 1 5 10
174 <210> SEQ ID NO: 6
175 <211> LENGTH: 10
176 <212> TYPE: PRT
177 <213> ORGANISM: Artificial sequence
179 <220> FEATURE:
180 <223> OTHER INFORMATION: C-terminal of metabotropic glutamate receptor,
181 mGluR2.

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/910,706A

DATE: 03/13/2002
TIME: 11:16:34

Input Set : A:\JHU1520-2.TXT
Output Set: N:\CRF3\03132002\I910706A.raw

183 <400> SEQUENCE: 6
184 Glu Val Val Asp Ser Thr Thr Ser Ser Leu
185 1 5 10
187 <210> SEQ ID NO: 7
188 <211> LENGTH: 10
189 <212> TYPE: PRT
190 <213> ORGANISM: Artificial sequence
192 <220> FEATURE:
193 <223> OTHER INFORMATION: C-terminal of metabotropic glutamate receptor,
194 mGluR3.
196 <400> SEQUENCE: 7
198 Glu Val Leu Asp Ser Thr Thr Ser Ser Leu
199 1 5 10
201 <210> SEQ ID NO: 8
202 <211> LENGTH: 10
203 <212> TYPE: PRT
204 <213> ORGANISM: Artificial sequence
206 <220> FEATURE:
207 <223> OTHER INFORMATION: C-terminal of metabotropic glutamate receptor,
208 mGluR4.
210 <400> SEQUENCE: 8
212 Thr Tyr Val Thr Tyr Thr Asn His Ala Ile
213 1 5 10
215 <210> SEQ ID NO: 9
216 <211> LENGTH: 10
217 <212> TYPE: PRT
218 <213> ORGANISM: Artificial sequence
220 <220> FEATURE:
221 <223> OTHER INFORMATION: C-terminal of metabotropic glutamate receptor,
222 mGluR5.
224 <400> SEQUENCE: 9
226 Arg Asp Tyr Thr Gln Ser Ser Ser Ser Leu
227 1 5 10
229 <210> SEQ ID NO: 10
230 <211> LENGTH: 4
231 <212> TYPE: PRT
232 <213> ORGANISM: Artificial sequence
234 <220> FEATURE:
235 <223> OTHER INFORMATION: peptide binding sequence
237 <400> SEQUENCE: 10
238 Ser Ser Thr Leu
239 1
241 <210> SEQ ID NO: 11
242 <211> LENGTH: 4
243 <212> TYPE: PRT
244 <213> ORGANISM: Artificial sequence
246 <220> FEATURE:
247 <223> OTHER INFORMATION: peptide binding sequence
249 <400> SEQUENCE: 11

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/910,706A

DATE: 03/13/2002

TIME: 11:16:34

Input Set : A:\JHU1520-2.TXT

Output Set: N:\CRF3\03132002\I910706A.raw

251 Ser Ser Ser Leu
252 1
254 <210> SEQ ID NO: 12
255 <211> LENGTH: 4
256 <212> TYPE: PRT
257 <213> ORGANISM: Rattus norvegicus
259 <220> FEATURE:
260 <221> NAME/KEY: VARIANT
261 <222> LOCATION: (0)...(0)
262 <223> OTHER INFORMATION: position 31-34 of SEQ ID NO:2
264 <400> SEQUENCE: 12
266 Ala Val Thr Val
267 1
269 <210> SEQ ID NO: 13
270 <211> LENGTH: 4
271 <212> TYPE: PRT
272 <213> ORGANISM: Homo sapiens / Mouse
274 <220> FEATURE:
275 <221> NAME/KEY: VARIANT
276 <222> LOCATION: (0)...(0)
277 <223> OTHER INFORMATION: positions 31-34 of SEQ ID NO:3
279 <400> SEQUENCE: 13
281 Gly His Arg Phe
282 1
284 <210> SEQ ID NO: 14
285 <211> LENGTH: 4
286 <212> TYPE: PRT
287 <213> ORGANISM: Artificial Sequence
289 <220> FEATURE:
290 <223> OTHER INFORMATION: PDZ-like domain
292 <400> SEQUENCE: 14
294 Gly Leu Gly Phe
295 1
297 <210> SEQ ID NO: 15
298 <211> LENGTH: 4
299 <212> TYPE: PRT
300 <213> ORGANISM: Artificial Sequence
302 <220> FEATURE:
303 <223> OTHER INFORMATION: C-terminal motif
305 <400> SEQUENCE: 15
307 Thr Ser Ser Leu
308 1

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/910,706A

DATE: 03/13/2002

TIME: 11:16:35

Input Set : A:\JHU1520-2.TXT

Output Set: N:\CRF3\03132002\I910706A.raw